

[illegible]

A transmission system allowing a response test to be activated from cable side and easy detection of occurrence of a failure is disclosed. In a transmission system for transmitting data between a first communication point and a second communication point along a link, a test manager transmits a trigger signal to a media converter on the link, and determines a location of a failure depending on whether a response block of data is received from a corresponding media converter within a predetermined time period. When a media converter has received the trigger signal, a response packet corresponding to the trigger signal is transmitted back to a source that has transmitted the trigger signal. A packet buffer is preferably provided in a media converter so that when one link is disconnected, the other link can be used to transmit packets, allowing a link test.